# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 01/15/2018 10:57 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/18/2017 09:13 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017 (Expired)
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124643 | -1 | 1.45 | 124407 | 1.45 |
| Blue | F | SSC | 125000 | 123160 | -2 | 3.30 | 123339 | 3.14 |
| Blue | E | FITC | 23615 | 22883 | -4 | 2.68 | 1024 | 10.58 |
| Blue | D | PE | 26739 | 26493 | -1 | 2.09 | 952 | 10.34 |
| Blue | B | PerCP-Cy5-5 | 48339 | 47635 | -2 | 3.52 | 1368 | 16.99 |
| Blue | A | PE-Cy7 | 45021 | 44440 | -2 | 5.22 | 687 | 35.85 |
| Red | C | APC | 53064 | 52324 | -2 | 2.80 | 2996 | 9.37 |
| Red | A | APC-Cy7 | 57175 | 56615 | -1 | 2.78 | 1181 | 11.15 |
| Violet | B | V450 | 14728 | 14058 | -5 | 4.96 | 670 | 9.72 |
| Violet | A | V500 | 58621 | 57167 | -3 | 4.82 | 2532 | 7.16 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19031 | 2.41 | 607 | -7 | N/A | N/A | Pass |
| Blue | F | SSC | 60880 | 1.46 | 549 | 3 | N/A | N/A | Pass |
| Blue | E | FITC | 112 | 38.37 | 544 | -4 | 0.0191 | 51 | Pass |
| Blue | D | PE | 208 | 29.27 | 536 | 0 | 0.1351 | 179 | Pass |
| Blue | B | PerCP-Cy5-5 | 213 | 46.04 | 633 | -2 | 0.0101 | 131 | Pass |
| Blue | A | PE-Cy7 | 74 | 119.14 | 691 | -2 | 0.0116 | 12 | Pass |
| Red | C | APC | 347 | 28.08 | 597 | 0 | 0.0212 | 111 | Pass |
| Red | A | APC-Cy7 | 129 | 39.71 | 579 | -1 | 0.0056 | 1487 | Pass |
| Violet | B | V450 | 83 | 42.60 | 461 | -9 | 0.0424 | 1811 | Pass |
| Violet | A | V500 | 185 | 22.93 | 489 | -8 | 0.0139 | 340 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.27 | -31.74 | 0.96 |
| Blue | 20.34 | 16.27 - 24.41 | 1.25 | 0.99 - 1.49 | 0.00 | 0.00 | 1.33 |
| Red | 18.21 | 14.40 - 21.60 | N/A | N/A | 31.35 | 31.82 | 1.15 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 14392

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments